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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No.	3910.164
First Inventor or Application Identifier	Russell Javors
Title	TOY WITH REMOTELY CONTROLLED ETC.
Express Mail Label No.	EK510832850US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. [X] * Fee Transmittal Form *(e.g., PTO/SB/17)*
(Submit an original and a duplicate for fee processing)
2. [X] Specification [*Total Pages* 12]
(preferred arrangement set forth below)
- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings *(if filed)*
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

3. [X] Drawing(s) *(35 U.S.C. 113)* [*Total Sheets* 3]
4. Oath or Declaration [*Total Pages* 2]
   a. [ ] Newly executed (original or copy)
   b. [X] Copy from a prior application (37 C.F.R. § 1.63(d))
   (for continuation/divisional with Box 16 completed)
      i. [ ] DELETION OF INVENTOR(S)
      Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

** NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).*

5. [ ] Microfiche Computer Program *(Appendix)*
6. Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all necessary)*
   a. [ ] Computer Readable Copy
   b. [ ] Paper Copy (identical to computer copy)
   c. [ ] Statement verifying identity of above copies

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ACCOMPANYING APPLICATION PARTS

7. [ ] Assignment Papers (cover sheet & document(s))
8. [ ] 37 C.F.R.§3.73(b) Statement *(when there is an assignee)* [ ] Power of Attorney
9. [ ] English Translation Document *(if applicable)*
10. [X] Information Disclosure Statement (IDS)/PTO-1449 [X] Copies of IDS Citations
11. [X] Preliminary Amendment
12. [ ] Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
13. [ ] * Small Entity Statement(s) *(PTO/SB/09-12)* [X] Statement filed in prior application, Status still proper and desired
14. [ ] Certified Copy of Priority Document(s)
(if foreign priority is claimed)
15. [X] Other: Petition to Make Special
Formal Drawings

16. **If a CONTINUING APPLICATION,** *check appropriate box, and supply the requisite information below and in a preliminary amendment:*

[X] Continuation [ ] Divisional [ ] Continuation-in-part (CIP) of prior application No: 08 / 892,374

Prior application information: *Examiner* Y. Beaulieu *Group / Art Unit:* 3361

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

[ ] *Customer Number or Bar Code Label* *(Insert Customer No. or Attach bar code label here)* or [X] *Correspondence address below*

Name	Frank J. DeRosa				
	Brown Raysman Millstein Felder & Steiner LLP				
Address	120 West 45th Street				
City	New York	*State*	NY	*Zip Code*	10036
Country	USA	*Telephone*	(212) 944-1515	*Fax*	(212) 840-2429

Name (Print/Type)	Frank J. DeRosa	*Registration No. (Attorney/Agent)*	26,543
Signature	Frank J. DeRosa	*Date*	2/3/00

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Attorney Docket No. 3910.164

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s)	:	Russell Javors
Serial No.	:	To be assigned (Continuation of 08/892,374)
Filing Date	:	February 3, 2000
Title	:	TOY WITH REMOTELY CONTROLLED SECURITY ALARM

Assistant Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Please amend the above-identified application as follows:

In the Specification

Page 1, line 17, change "5,360,197" to --5,306,197--;

below line 27, insert

-- A toy vehicle which incorporates a security alarm device in accordance with the invention comprises a controller having a control input, at least one sensor --.

Page 2, line 15, after "to" (first occurrence), delete "a".

Page 3, line 8, change "embedment" to --embodiment--.

Page 3, line 13, delete "response to" (second occurrence).

Page 4, line 25, change "rev'ing" to --revving--.

Page 5, line 8, change "to 40" to --40 to--.

Page 12 (Abstract), line 5, change "rev'ing" to --revving--; delete "and" (first occurrence) and insert --,--; after "screeching" change ";" to --,--; after "drive" change ";" to --,--;

Page 12, line 7, after "the" change "arm" to --alarm--.

In the Claims

Cancel claims 1, 10 and 13-23 without prejudice.

Amend the claims as indicated below.

2. (Amended) A toy [vehicle] comprising:

a security alarm device comprising a controller [having a control input] and having an armed state and an unarmed state, [and] the controller being responsive to [the control] a signal input to at least one input thereof to cause the security alarm device to selectively assume the armed and unarmed states;

a signaling device coupled to the controller and responsive thereto to provide an audio or visual alarm signal;

the controller causing the signaling device to [a generate a] provide an alarm signal [in response to a change in state of the] with a change of state of the security alarm device between its armed state and its unarmed state.

3. (Amended) The toy [vehicle] of claim [1 or] 2 wherein the toy comprises a toy vehicle and the signaling device comprises an audio device coupled to the controller which [generates a] projects sound as an audio alarm signal.

4. (Amended) The toy [vehicle] of claim [1 or] 2 wherein the toy comprises a toy vehicle and the signaling device comprises a visual device coupled to the controller which [generates] projects light as a visual alarm signal.

5. (Amended) The toy [vehicle] of claim [1 or] 2 wherein the toy comprises a toy vehicle and [comprising] a propulsion system including an electric motor which propels the toy vehicle and a motor drive which selectively supplies power to the electric motor, the controller being coupled to the motor drive and selectively supplying drive signals thereto at least in response to a signal at at least one input of the controller [disabling the motor drive when the alarm device is in its armed state].

6. (Amended) The toy [vehicle] of claim [1 or] 2 comprising a remote control device coupled to the [control input of the] controller, the controller being operative to cause the alarm device to assume its armed and unarmed states in response to the remote control device.

7. (Amended) The toy [vehicle] of claim [5] 6 wherein the toy comprises a receiver wirelessly coupled to the remote control device, [and the security alarm device are wirelessly coupled, the toy vehicle comprising a] the receiver being coupled to the at least one [the control] input of the [security alarm device] controller and being operative to wirelessly receive [a] signals from the remote control device and provide signals in response thereto to the at least one input of the controller, the controller being responsive to the [receiver] signals at the at least one input to cause the security alarm device to assume its armed and unarmed states[;].

8. (Amended) The toy [vehicle] of claim 7 wherein the remote control device includes an infrared transmitter and the receiver includes an infrared receiver.

9. (Amended) The toy [vehicle] of claim [5 comprising] 2 wherein the toy comprises a toy vehicle and comprises a remote control device, a receiver wirelessly coupled to the remote control device and coupled to the at least one input of the controller, and a propulsion system including an electric motor which propels the toy vehicle, the electric motor being coupled to and controlled by the controller, the controller being operative in response to signals provided by

the receiver to the at least one input to cause the alarm device to assume its armed and unarmed states and to provide drive signals to the motor, the receiver providing signals to the at least one input in response to signals wirelessly received [by the controller] from the remote control device.

11. (Amended) The toy [vehicle] of claim [10] 2 wherein the toy comprises a toy vehicle, a receiver coupled to at least one input of the controller and a remote control device wirelessly coupled to the receiver, [wherein the synthesizer also generates an engine rev'ing sound,] and wherein the remote control device comprises a first control which when activated causes the remote control device to wirelessly transmit signals in response to which [when received by the receiver cause] the controller causes the security alarm device to assume its armed and unarmed states and the signaling device to provide an audio or visual alarm signal, and a second control which when activated causes the remote control device to wirelessly transmit signals in response to which [when received by the receiver cause the synthesizer to generate the engine rev'ing sound] the controller causes the signaling device to provide audio being at least one of an engine revving or tire screeching sound.

Add the following new claims.

--24. A toy comprising:

a security alarm device comprising a controller controlling activation of an alarm, the security alarm device having an armed state and an unarmed state, the controller being responsive to a signal provided to at least one input of the controller to cause the security alarm device to selectively assume the armed and unarmed states;

a signaling device coupled to the controller and responsive thereto to provide at least one first audio or visual alarm signal representing a change in state of the security alarm device

between the armed state and the unarmed state, and at least one second audio or visual alarm signal representing activation of the alarm;

the controller causing the signaling device to provide the at least one first audio or visual alarm signal with a change in the state of the security alarm device between the armed state and the unarmed state and to provide the at least one second audio or visual alarm signal when the alarm is activated.

--25. The toy of claim 24 comprising a sensor external to the controller coupled to at least one input of the controller, the controller selectively activating the alarm responsive to the sensor.

--26. The toy of claim 25 wherein the sensor is responsive to motion of the toy.

--27. The toy of claim 24 wherein the toy comprises a toy vehicle.

--28. The toy of claim 24 comprising a remote control device coupled to the controller, the controller being operative to cause the alarm device to assume its armed and unarmed states in response to the remote control device.

--29. The toy of claim 28 comprising a receiver wirelessly coupled to the remote control device, the receiver being coupled to the at least one input of the controller and being operative to wirelessly receive signals from the remote control device and provide signals in response thereto to the at least one input of the controller.

toy.

--30. A toy comprising:

a security alarm device comprising a controller and having an armed state and an unarmed state, the controller being responsive to a signal input to at least one input thereof to cause the security alarm device to selectively assume the armed and unarmed states;

a signaling device coupled to the controller and responsive thereto to provide an audio or visual alarm signal;

the controller causing the signaling device to provide an alarm signal with a change of state of the security alarm device between its armed state and its unarmed state;

a propulsion system including an electric motor which propels the toy and a motor drive which selectively supplies power to the electric motor, the controller being coupled to the motor drive and causing the motor drive to selectively supply or not supply power to the electric motor when the security alarm device is in its unarmed state and to not supply power to the electric motor when the security alarm device is in its armed state.

--31. The toy of claim 30 wherein the toy comprises a toy vehicle.

--32. The toy of claim 30 comprising a remote control device coupled to the controller, the controller being operative to cause the alarm device to assume its armed and unarmed states in response to the remote control device.

--33. The toy of claim 32 comprising a receiver wirelessly coupled to the remote control device, the receiver being coupled to the at least one input of the controller and being operative to wirelessly receive signals from the remote control device and provide signals in response thereto to the at least one input of the controller.

--34. The toy of claim 30 comprising a first manually actuable control in response to actuation of which the controller causes the motor drive to supply power to the motor in the unarmed state of the security alarm device.

--35. The toy of claim 34 comprising a remote control device coupled to the controller and including the first control and a second manually actuable control in response to

actuation of which the controller causes the alarm device to change between its armed and unarmed states.

--36. The toy of claim 35 comprising a receiver wirelessly coupled to the remote control device, the receiver being coupled to the at least one input of the controller and being operative to wirelessly receive signals from the remote control device and provide signals in response thereto to the at least one input of the controller.

REMARKS

The amendments to the specification requested herein were entered in parent application Serial No. 08/892,374. Amended independent claim 2, and new independent claims 24 and 30 are presented for examination together with dependent claims 3-9, 11, 12, 25-29 and 31-36.

A Petition to Make Special, filed concurrently herewith, discusses the independent claims presented herein.

Page 2, lines 8-13 of the specification describe an embodiment of a toy vehicle incorporating a security alarm device which does not necessarily include a sensor. In this embodiment, the controller causes the signaling device to a generate a signal in response to a change in state of the security alarm device between its armed state and its unarmed state.

Original claim 2, as amended herein, and new independent claim 24 are directed to a toy according to this embodiment.

Support for new claim 30 may be found in original claim 5 and Fig. 3 (see components referenced by 18).

Examination of the application with the claims and specification as amended and presented herein is requested.

Respectfully submitted,

Dated: February 3, 2000

Frank J. DeRosa
Reg. No. 26,543
Brown Raysman Millstein Felder & Steiner LLP
120 West Forty-Fifth Street
New York, New York 10036
(212) 944-1515

Express Mail No. EK510832850US

TOY WITH REMOTELY CONTROLLED SECURITY ALARM

BACKGROUND OF THE INVENTION

The invention disclosed herein relates to a toy, such as a toy vehicle, which has a remotely controlled security alarm.

Toy designers seek to provide toys which replicate real life because realistic toys have high play value, and typically, the more realistic the toy, the greater its play value. Among the many toys for which this is evident are toy vehicles. Realism in toy vehicles has been achieved in appearance, sound and function. For example, miniature toy vehicles are sold which seek to replicate in appearance the full scale real life versions down to minute details. Some reduced scale toy vehicles even have functioning parts, such as doors that open, etc. Other reduced scale toys, somewhat larger than miniatures, provide more elaborate functioning parts and/or provide sound effects, while retaining much if not all of the detail of the miniatures. Still other toy vehicles provide functionality and /or sound effects by remote control. See, for example, the following U.S. patents: 4,219,962; 4,242,107; 4,325,199; 4,580,994; 4,817,948; 4,946,416; 4,964,837; 5,024,626; 5,045,016; 5,195,920; and 5,360,197.

OBJECTS AND SUMMARY OF THE INVENTION

It is an object of the invention disclosed herein to replicate some or all vehicle security alarm functions in a toy vehicle.

It is another object of the invention to provide a security alarm device in a toy vehicle.

It is another object of the invention to provide a security alarm device in a toy vehicle which is remotely controlled.

The invention achieves this and other objects by replicating one or more vehicle alarm functions in a toy vehicle.

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DATE OF DEPOSIT: July 14, 1997

coupled to the controller, and a signaling device coupled to the controller. The security alarm device has an armed state and an unarmed state and is responsive to the at least one sensor in its armed state and to the control signal input to assume the armed and unarmed states. The controller causes the signaling device to generate a signal in response to activation of the at least one sensor in the armed state of the security alarm device and cause the signaling device to cease generating the signal when the alarm device is placed in its unarmed state.

In another embodiment, a toy vehicle incorporates a security alarm device in accordance with the invention comprising the controller and signalling device described above, but does not necessarily include the sensor. In this embodiment, the controller causes the signaling device to a generate a signal in response to a change in state of the security alarm device between its armed state and its unarmed state.

In the preferred embodiment, the security device includes the sensor and the controller causes the signaling device to a generate a signal in response to a change in state of the security alarm device between its armed state and its unarmed state.

In the preferred embodiment, the signaling device comprises an audio device which generates a sound signal, but may instead comprise a visual device which generates a visual signal, or both.

The toy vehicle may comprise a propulsion system including an electric motor which propels the toy vehicle and a motor drive which selectively supplies power to the electric motor, and the controller is coupled to the motor drive and disables the motor drive when the alarm device is in its armed state.

In the preferred embodiment, the security alarm device and all or selected other vehicle functions are controlled remotely by a remote control device coupled to the control input of the controller. Preferably, the remote control device and the security alarm device are wirelessly coupled, and the toy vehicle comprises a receiver coupled to the control input of the security alarm device controller

operative to wirelessly receive a signal from the remote control device. The controller is responsive to the receiver to cause the security alarm device to assume its armed and unarmed states.

The sensor may be a motion sensor or a microswitch or magnetic switch, for example.

The remote control device may include an infrared transmitter and the receiver correspondingly includes an infrared receiver.

In the preferred embedment, the controller includes a sound synthesizer and the signaling device comprises a speaker coupled to the controller to receive sound signals therefrom. The synthesizer generates beep sound signals representing changes of state of the security alarm device between its armed and unarmed states and a siren sound or a honking horn signal, and the controller causes the synthesizer to generate the beep signals in response to response to a change in state of the security alarm device between its armed state and its unarmed state and the siren or honking horn sound in response to activation of the at least one sensor in the armed state of the security alarm device.

The signalling device may be a visual device such as the vehicle lights, or the signalling device can include audio and visual devices. The audio and visual devices may be lights and a horn which are typically provided with a vehicle, or audio and visual devices which form part only of the alarm device.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention is illustrated in the figures of the accompanying drawings which are meant to be exemplary and not limiting, in which like numerals in the different figures refer to like or corresponding parts, and in which:

Fig. 1 shows a toy vehicle and a remote control incorporating a security alarm device in accordance with the invention;

Fig. 2 is a block diagram of the security alarm device, the vehicle head lights and tail lights and the vehicle motor ; and

Fig. 3 is a circuit schematic diagram of an implementation of the block diagram of Fig. 2

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to Fig. 1, a toy vehicle 10 includes the security alarm device 12 represented in Fig. 2. The vehicle 10 includes wheels 14 at least one of which is driven by a motor 16 (Fig. 2) in conventional fashion except for interaction between the alarm device 12 and the motor 16 (via the motor drive 18). The vehicle 10 may include head lights and tail lights 22 and 23, which may also be conventional except for any interaction with the alarm device 12. The alarm device 12 may include an indicator 26 (e.g., a lamp or a light-emitting diode "LED") which indicates whether the alarm device 12 is in an armed state or an unarmed state.

In the preferred embodiment, the alarm device 12 includes a remote control 30 and a receiver 32 (Fig. 2) carried by the vehicle 10 which are wirelessly coupled together. In the preferred embodiment, the remote control 30 includes an infrared transmitter and the receiver 32 is an infrared receiver. However, the remote control 30 may be connected to the toy vehicle by one or more conductors, in which case the receiver 32 may be omitted. Also, the remote control 30 may include a transmitter other than an IR transmitter. e.g., a radio transmitter or an ultrasonic sound transmitter, etc., and the receiver 32 will be compatible with the transmitter.

Referring to Fig. 1, the remote control 30 may control the following alarm and vehicle functions:

alarm arm and disarm (push button switch #1);

engine rev'ing sound (push button switch #2);

motor drive (push button switch #3); and

vehicle lights (push button switch #4).

Referring to Fig. 2, the remote control 30 transmits coded signals to the receiver 32 carried by the vehicle, which detects the transmitted signals and supplies the detected signals to a controller 40. The controller 40 decodes the signals supplied by the receiver 32 and selectively activates the lamp drive 42 which drives the vehicle head lights 22 and the vehicle tail lights 23, the lamp drive 44 which drives the alarm indicator 26, the speaker drive 46 which drives the speaker 48 and the motor drive 18 which drives the motor 16. One or more sensors 50, 51 are coupled to the controller to 40 provide signals representing security violations. In the preferred embodiment, sensor 50 is a motion sensor. Additional sensors such as sensor 51 may be microswitches or magnetic switches which provide a signal to the controller 40 when the switch is activated and/or deactivated representing, for example, opening and closing a door or hood or trunk lid.

The controller 40 is preferably a programmed computer which includes a sound synthesizer, and is programmed to carry out the functions described herein and generate sound signals representing the sounds described herein in response to input signals from the receiver 32 and the sensors 50, 51. Alternatively, a separate sound synthesizer may be provided.

Fig. 3 shows an implementation of the block diagram of Fig. 2. In the remote control 30, the push button switches ##1, 2, 3 and 4 are coupled to a modulator 60, which modulates the drive to transistor 62 differently in response to activation of each of switches ##1, 2, 3 and 4, and thereby modulates the current to the IR emitter 64. The IR emitter 64 emits modulated IR light in accordance with the different current modulation patterns provided by the modulator 60. The modulator 60 may be any conventional modulator and the IR emitter 64 may be any conventional IR emitter such as an IR LED.

In the vehicle 10, an IR receiver 32 detects the modulated IR light emitted by the IR emitter 64 and supplies the detected signal to a demodulator 70, which

demodulates and decodes the received signal and provides an output signal on the appropriate output Out 1, Out 2 or Out 3 depending upon the modulated signal received by the IR receiver 32. The outputs Out 1-3 of demodulator 70 are coupled to trigger inputs TG 1-3 of a controller circuit 74. The motion sensor 50 is coupled to a fourth input of the controller circuit 74. An LED alarm indicator 26 is coupled to the STA output of the controller circuit 74, and when lit indicates that the alarm is armed. In the embodiment of Fig. 3, the LED 80 replaces the separate head lights 22 and tail lights 23 of Fig. 2.

The IR receiver 32 , the demodulator 70 and the controller circuit 74 may be conventional. In the preferred embodiment, the controller circuit 74 is a Series W528x integrated circuit available from Windbond Electronics Corp. (Republic of China), and includes an ADPCM (adaptive differential pulse-code modulation) voice synthesizer. The controller circuit 74 includes a programmed processor, which may be programmed by one of skill in the art to carry out the functions described herein.

While the invention has been described and illustrated in connection with preferred embodiments, many variations and modifications, as will be apparent to those of skill in the art, may be made without departing from the spirit and scope of the invention. The invention as set forth in the appended clams is thus not limited to the precise details of construction set forth above as such variations and modifications are intended to be included within the spirit and scope of the invention as set forth in the defined claims.

CLAIMS

1. A toy vehicle comprising:

a security alarm device comprising a controller having a control input and at least one sensor coupled to the controller, the security alarm device having an armed state and an unarmed state and being responsive to the at least one sensor in its armed state and to the control signal input to assume the armed and unarmed states;

a signaling device coupled to the controller;

the controller causing the signaling device to generate a signal in response to activation of the at least one sensor in the armed state of the security alarm device and causing the signaling to cease generating the signal when the alarm device is placed in its unarmed state.

2. A toy vehicle comprising:

a security alarm device comprising a controller having a control input and having an armed state and an unarmed state, and the controller being responsive to the control signal input to cause the security alarm device to assume the armed and unarmed states;

a signaling device coupled to the controller;

the controller causing the signaling device to a generate a signal in response to a change in state of the security alarm device between its armed state and its unarmed state.

3. The toy vehicle of claim 1 or 2 wherein the signaling device comprises an audio device which generates a sound signal.

4. The toy vehicle of claim 1 or 2 wherein the signaling device comprises a visual device which generates a visual signal.

5. The toy vehicle of claim 1 or 2 comprising a propulsion system including an electric motor which propels the toy vehicle and a motor drive which selectively supplies power to the electric motor, the controller being coupled to the

motor drive and disabling the motor drive when the alarm device is in its armed state.

6. The toy vehicle of claim 1 or 2 comprising a remote control device coupled to the control input of the controller operative to cause the alarm device to assume its armed and unarmed states.

7. The toy vehicle of claim 5 wherein the remote control device and the security alarm device are wirelessly coupled, the toy vehicle comprising a receiver coupled to the control input of the security alarm device controller operative to wirelessly receive a signal from the remote control device, the controller being responsive to the receiver to cause the security alarm device to assume its armed and unarmed states;

8. The toy vehicle of claim 7 wherein the remote control device includes an infrared transmitter and the receiver includes an infrared receiver.

9. The toy vehicle of claim 5 comprising a propulsion system including an electric motor which propels the toy vehicle, the electric motor being coupled to and controlled by the controller in response to signals received by the controller from the remote control device.

10. The toy vehicle of claim 7 wherein the controller includes a sound synthesizer and the signaling device comprises a speaker coupled to the controller to receive sound signals therefrom, the synthesizer being generating beep sound signals representing changes of state of the security alarm device between its armed and unarmed states and a siren sound, the controller causing the synthesizer to generate the beep signals in response to response to a change in state of the security alarm device between its armed state and its unarmed state and the siren sound in response to activation of the at least one sensor in the armed state of the security alarm device.

11. The toy vehicle of claim 10 wherein the synthesizer also generates an engine rev'ing sound, and wherein the remote control device comprises a first

control which when activated causes the remote control device to transmit signals which when received by the receiver cause the security alarm device to assume its armed and unarmed states, and a second control which when activated causes the remote control device to transmit signals which when received by the receiver cause the synthesizer to generate the engine rev'ing sound.

12. The toy vehicle of claim 10 wherein the synthesizer also generates a tire screeching sound, and wherein the remote control device comprises a first control which when activated causes the remote control device to transmit signals which when received by the receiver cause the security alarm device to assume its armed and unarmed states, and a second control which when activated causes the remote control device to transmit signals which when received by the receiver cause the synthesizer to generate the tire screeching sound.

13. The toy vehicle of claim 1 wherein the security sensor comprises a motion sensor.

14. A toy vehicle comprising:

a security alarm device comprising a controller having a control input and at least one sensor coupled to the controller, the security alarm device having an armed state and an unarmed state and being responsive to the at least one sensor in its armed state and to the control signal input to assume the armed and unarmed states;

an audio device coupled to the controller;

the controller causing the audio device to generate an alarm sound in response to activation of the at least one sensor in the armed state of the security alarm device and causing the audio device to cease generating the alarm sound when the alarm device is placed in its unarmed state, the controller further causing the audio device to generate arm and siren sounds when the state of alarm device changes from armed to unarmed and from unarmed to armed.

15. The toy vehicle of claim 14 comprising a propulsion system including an electric motor which propels the toy vehicle and a motor drive which selectively supplies power to the electric motor, the controller being coupled to the motor drive and disabling the motor drive when the alarm device is in its armed state.

16. The toy vehicle of claim 14 comprising a remote control device coupled to the control input of the controller operative to cause the alarm device to assume its armed and unarmed states.

17. The toy vehicle of claim 15 wherein the remote control device and the security alarm device are wirelessly coupled, the toy vehicle comprising a receiver coupled to the control input of the security alarm device controller operative to wirelessly receive a signal from the remote control device, the controller being responsive to the receiver to cause the security alarm device to assume its armed and unarmed states;

18. The toy vehicle of claim 17 wherein the remote control device includes an infrared transmitter and the receiver includes an infrared receiver.

19. The toy vehicle of claim 15 comprising a propulsion system including an electric motor which propels the toy vehicle, the electric motor being coupled to and controlled by the controller in response to signals received by the controller from the remote control device.

20. The toy vehicle of claim 17 wherein the controller includes a sound synthesizer and the audio device comprises a speaker coupled to the controller to receive sound signals therefrom, the synthesizer being generating beep sound signals representing changes of state of the security alarm device between its armed and unarmed states and a siren sound, the controller causing the synthesizer to generate the beep signals in response to response to a change in state of the security alarm device between its armed state and its unarmed state and the siren

sound in response to activation of the at least one sensor in the armed state of the security alarm device.

21. The toy vehicle of claim 19 wherein the synthesizer also generates an engine rev'ing sound, and wherein the remote control device comprises a first control which when activated causes the remote control device to transmit signals which when received by the receiver cause the security alarm device to assume its armed and unarmed states, and a second control which when activated causes the remote control device to transmit signals which when received by the receiver cause the synthesizer to generate the engine rev'ing sound.

22. The toy vehicle of claim 19 wherein the synthesizer also generates a tire screeching sound, and wherein the remote control device comprises a first control which when activated causes the remote control device to transmit signals which when received by the receiver cause the security alarm device to assume its armed and unarmed states, and a second control which when activated causes the remote control device to transmit signals which when received by the receiver cause the synthesizer to generate the tire screeching sound.

23. The toy vehicle of claim 14 wherein the security sensor comprises a motion sensor.

ABSTRACT OF THE DISCLOSURE

A security alarm device is replicated in a toy vehicle. The security device includes a remote control which also can control vehicle functions. The remote control may control alarm arm and disarm, alarm and vehicle sounds such as arm, disarm, alarm set off, engine rev'ing and tire screeching; motor drive; and vehicle lights. The security alarm device includes an LED which indicates whether the alarm is armed or unarmed, and a motion sensor which sets the arm off (e.g., emitting a siren sound) when the toy vehicle is moved in its armed state.

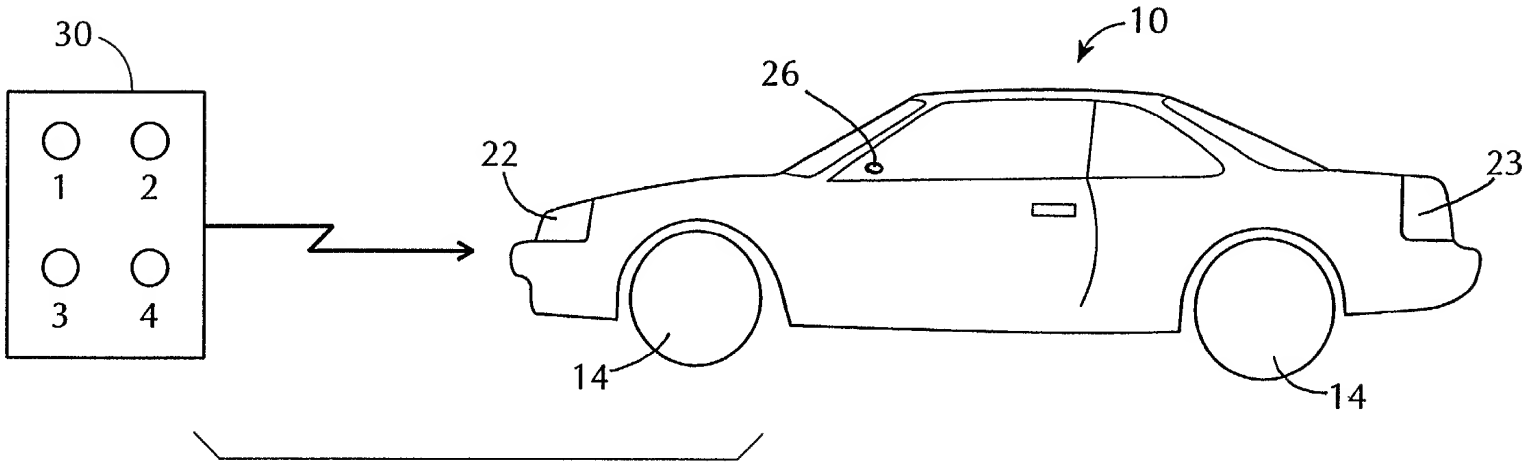


FIG. 1

FIG. 2

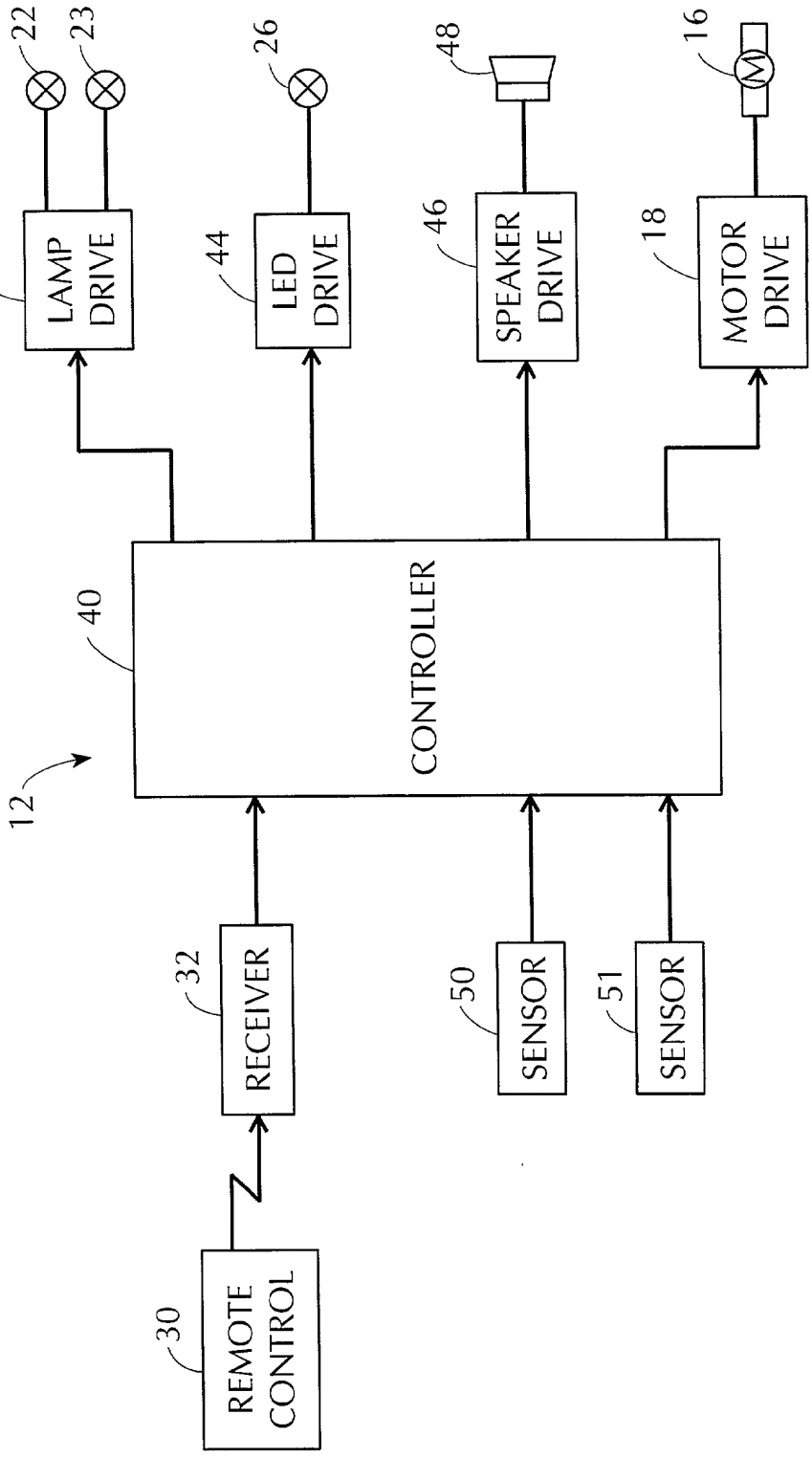
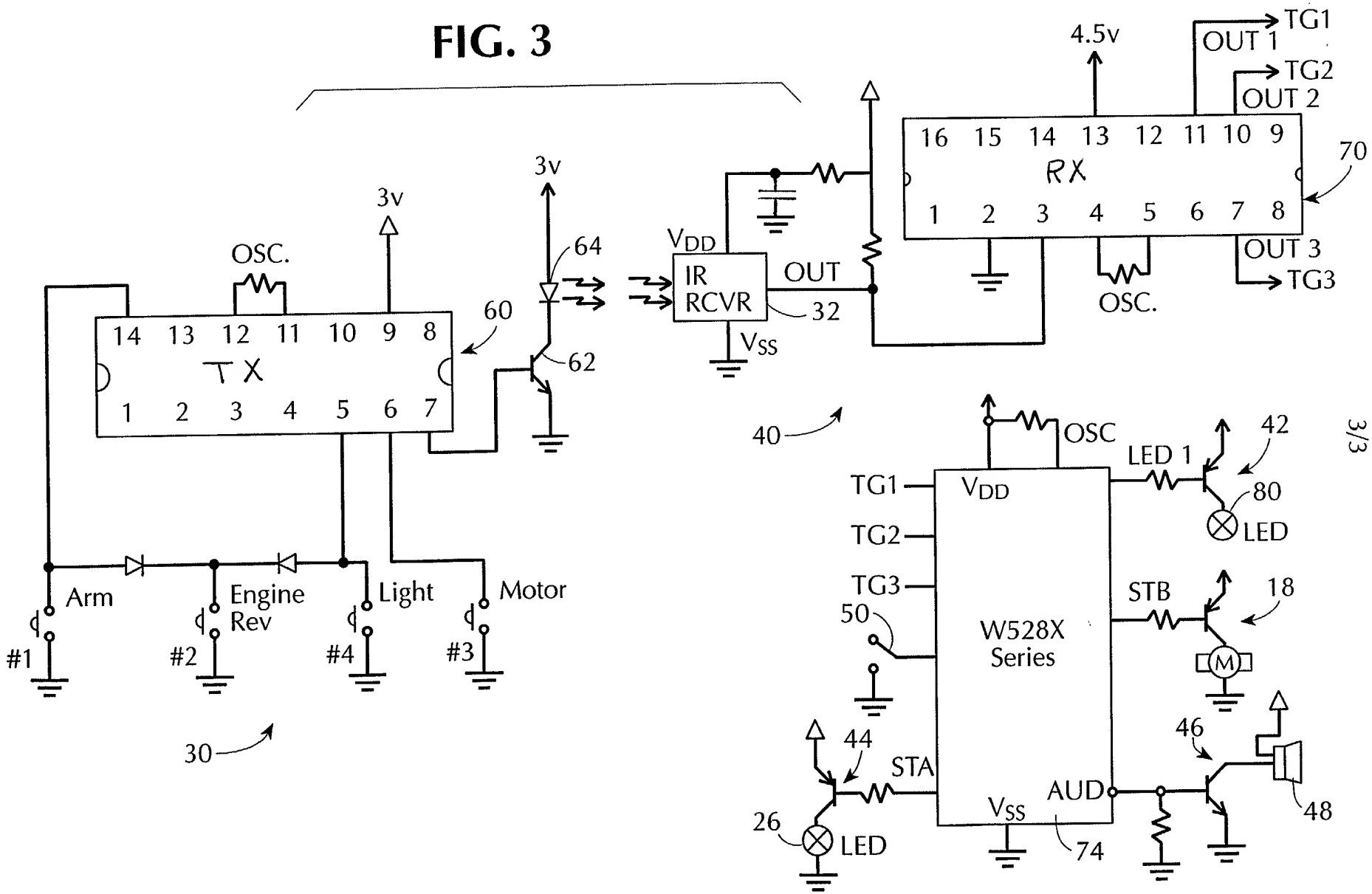

22
23
26
48
16
42
LAMP DRIVE
44
LED DRIVE
46
SPEAKER DRIVE
18
MOTOR DRIVE
40
CONTROLLER
12
32
RECEIVER
50
SENSOR
51
SENSOR
30
REMOTE CONTROL

FIG. 3


4.5v
TG1
OUT 1
TG2
OUT 2
16 15 14 13 12 11 10 9
RX
1 2 3 4 5 6 7 8
70
OUT 3
TG3
OSC.
3v
3v
64
OSC.
60
14 13 12 11 10 9 8
TX
1 2 3 4 5 6 7
62
VDD
IR
RCVR
OUT
32
VSS
40
OSC
LED 1
42
TG1
VDD
80
LED
TG2
TG3
STB
18
50
W528X
Series
M
44
46
STA
AUD
VSS
48
26
LED
74
Arm
Engine
Rev
Light
Motor
#1
#2
#4
#3
30

COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Attorney Docket No. 20174.78

As a below named inventor, I hereby declare that:
My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
TOY WITH REMOTELY CONTROLLED SECURITY ALARM
the specification of which is attached hereto unless the following box is checked:

[X] was filed on July 14, 1997 as United States Application Number or PCT International Application Number 08/892,374 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.
I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

PRIOR FOREIGN APPLICATION (S)				
Number	Country	Date Filed *(Day/Month/Year)*	Priority Claimed	
			Yes	No
			Yes	No
			Yes	No

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisonal application(s) listed below:

Application No.	Filing Date *(Day/Month/Year)*	Status Patented, Pending, Abandoned

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

Application No.	Filing Date *(Day/Month/Year)*	Status Patented, Pending, Abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Frank J. DeRosa,	**Reg. No. 26,543**	**R. Lewis Gable**	**Reg. No. 22,479**
Michael I. Wolfson	**Reg. No. 24,750**	**Morey B. Wildes**	**Reg. No. 36,968**
William H. Dippert	**Reg. No. 26,723**	**Vincent J. Vasta**	**Reg. No. 26,655**

Send Correspondence To:

Frank J. DeRosa
Cowan, Liebowitz & Latman, P.C.
1133 Avenue of the Americas
New York, N.Y. 10036-6799

Direct Telephone Calls To:
(212) 790-9200 (Frank J. DeRosa)

Full Name of Sole or First Inventor Russell Javors	Citizenship USA
Inventor's Signature Russell Javors	Date 2/20/98
Residence Massepequa, NY	
Post Office Address 22 Prospect Place, Massepequa, NY 11758	
Full Name of Second Joint Inventor, If any	Citizenship
Inventor's Signature	Date
Residence	
Post Office Address	
Full Name of Third Joint Inventor, If Any	Citizenship
Inventor's Signature	Date
Residence	
Post Office Address	
Full Name of Fourth Joint Inventor, If Any	Citizenship
Inventor's Signature	Date
Residence	
Post Office Address	